



SV3-110: SV3 Pre-Launch Checklist

Status Checklist Config Operate Setup Help

Readme

SV3 Pre-Launch Checklist

Date	2025-05-13T17:38:47.651Z	Glider Name	SV3-466563798(SV3-110)
Tech(s)	Jordan, Chris	Organization	MBARI
Project	MBTS	Ship/Op Area	Paragon / Monterey Bay

Software Information

Regulus Version	SV3-110, sn=466563798, Running Regulus 3.2.2, software version of 2019-12-03T23:58:34Z, production build 35, sv3, SOMDM3730-30-1880AKIR-A, (1.2.3) secure
Plugins	Running: AirmarWeather, GPSasRudderCompass, LogAlarmReporter, RudderParametersManager, ThrusterAdjuster Not running: PortForwarder, ThrudderDiagnosticsFixer

Communication

Item/Procedure	Readings	Comments	Initials
WiFi Connection	WiFi is On 		☒
Virtual Relay	0 queued msgs state=WAITING, sent=0, received=0, powerState=OFF (25m45.500s), virtualDevice=true, powerThreadActive=false (no internet connectivity) 	Not used anymore	☐
WGMS Iridium	IMEI:300434060354880, starts=1, r=2, w=45, sessionAttempts=48, sessionErrs=1, wErrs=0, rErrs=0, 10m ss avg=4.8 (i=5), 0 queued msgs state=TALKING, sent=45, lastTx=53.554s, avgTxSize=104.3B, totalTx=4.720kB, received=2, lastRx=2m16.971s, avgRxSize=39.0B, totalRx=0.076kB, powerState=ON (25m16.467s), virtualDevice=true, Requested by: iridiumModem, powerThreadActive=false 		☒
Vehicle telemetry received	averageMessageQueueRate=0.837s, sent=45, totalBytesSent=4.720kB, received=2, totalBytesReceived=0.076kB, lastRx=2m16.983s, ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],ProtobufMessageHandler[header=BB,header=BC,active=true, #accepted=0, #handled=0],secureComms[header=A9,active=true, #accepted=0, #handled=0],WGMSCommandHandler[header=0A,active=true, #accepted=2, #handled=2, lastRx=rx=2025-05-13T17:36:30.739Z, receiver=iridiumModem, headerByte=0x0A, 		☒
Location	Using GPSUBlox, declination=12.495506, failoverCounter=1, timelastSwitchedGps=2025-05-13T17:15:21Z, clockDt=2.249s 		☒
Tracker telemetry received	Battery (Volts) 16.14  Report Rate 4hrs 		☒

Configuration

Item/Procedure	Readings	Specifications	Comments	Initials
Tracker WGMS name	Tiny Tracker			☒
(Optional) Second Tracker Name				☐
Drybox WGMS name	Tiny			☒
Float name	Tiny			☒
Glider name	Tiny			☒
Umbilical Length	4m			☒
G1	Eco Puck			☒
G2				☐
G3				☐
T1				☐

D1				☐
S1	Hot Spot (with MF DAT)			☒
S2	GPCTD			☒
S3	PCo2			☒
S4				☐
Event definitions		Compare against standard list		☒
Vehicle and tracker op area defined		Note area name(s) and enable alarms		☒
Escalation list created/populated				☒

Vehicle Status

Item/Procedure	Readings	Comments	Initials
Battery [Wh] > 700 Wh	911.333		☒
Solar Power Indicators: > 0	11.587 0.0 14.295 17.533		☒

Item/Procedure	Readings					Initials
Domain Info	AMPS Hardware Status	Temperature (°C)	Pressure (kPa)	Hardware Uptime	Comments	Initial
Domain_Name=Host, Node=1, HW_SerNum=0x32385119353634330055004a On=Y	OK	22.4	113.8	Uptime: 0 days, 00:30:02		☒
Domain_Name=Thrudder-2, Node=3, HW_SerNum=0x474850052038384d0057002b On=Y	OK	23.2	256.1	Uptime: 0 days, 00:22:06		☒

Mechanical Checks

	Item/Procedure	Specifications	Comments	Initials
Float	Wet-mates connected/lubed	3M Silicone Lubricant Spray 3M ID No. 62-4678-4930-3		☒
	Connector covers secure			☒
	Drybox secure	Wiggle test		☒
	Contact info secure			☒
	Hull	Inspect, note condition		☒
	Skeg/Fin	Secure		☒
Sub	Hardware secure			☒
	Umbilical visual inspection	Free of voids/defects		☒
	Umbilical ribbon cable inspection			☒
	Roll pins inserted	Flush with surface		☒
	Wings	Hardware secure with Loctite, lock nuts, and seizing wire		☒
	Thrudder	Hardware secure		☒

Vehicle Functionality

Item/Procedure	Readings	Specifications	Comments
Thruster Spin	0.0	Spins freely, slow and fast speeds	Tested RPM 450
Rudder Range of Motion		Rudder moves freely and smoothly	
Rudder right, left, center	13T17:38:46.005Z,desiredHeading=347.7,compass=12.8,rack=-13.6,post=-12.8rudderStatus=0000000B,)	Right, Left, Center	
Thrudder Compass Correction	Thrudder compass is corrected	recommended NOT corrected	LR says ok
Fixed heading test (spin)	287	Avoidance Off, Note Heading Used	
Waypoint course test (spin)		Avoidance Off, Note Waypoint Course Used	

Buoy Release Mechanism	device is disarmed, deviceState=OFF, deployCounter=0, waitTime=1m30s, powerState=OFF (23m18.410s), ampsPower=false, powerThreadActive=false	Catch release buoy by hand	
Octopus Cable 01	OK	Must Pass	
Octopus Cable 02	OK	Must Pass	
AIS Status	lastSeen=MMSI 368067680 (WILLIAM JOY). Pos=36.802242, -121.785205. t=37:0:NOT_DEFINED, 2025-05-13T17:38:15.441Z, lengthErrs=0, latlonErrs=0, broadcastCount=88, lastRx=35.297s, numberObserved=9, averageRxRateMillis=12.181s	If in harbor, must see MMSI	
Photo Document			

Vehicle Communication and Telemetry

Item/Procedure	Readings / Specifications	Comments	Initials
WX reporting	Temp=16.4°C, Press=1019.5mb, Wind Speed=2.84kn, Wind Dir=323.8°. Heading=22.7°		☒
UBLOX GPS	timeout=1m, nmeaValid=true, clockDt=2.240s, lastValidFix=2025-05-13T17:38:53Z@36.8025775,-121.7871225, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.90,std=0.30,min=10.00,max=11.00,n=300,hdop:sma=0.89,std=0.12,min=0.76,max=1.17,n=300,altitude:sma=1.14,std=0.82,min=-0.60,max=2.70,n=300		☒
Airmar GPS	2025-05-13T17:38:52.900Z@36.80257,-121.787065,lastRx=0.520s, quality=80, timeout=5m, nmeaValid=true, clockDt=2.113s, lastValidFix=2025-05-13T17:38:52.900Z@36.80257,-121.787065, gpsWatchdogFailureCounter=0, ggaQCount:2=300,numSat:sma=10.79,std=0.41,min=10.00,max=11.00,n=300,hdop:sma=0.82,std=0.04,min=0.80,max=0.90,n=300,altitude:sma=10.07,std=0.29,min=9.10,max=10.6		☐
Torpedo GPS	Not Available!		☐
Water speed readings	Unknown speed; ncc=0, nci=0, tec=0, aip=0.00		☐
Obstacle Avoidance Status	Disabled	Will be enabled before deployment	☐
Check alarms	"Out of bounds" red. All yellow/green		☒

General Comments

mbilcal has two spots were the cable is wearing through.

Technician Signature: Jordan Caress

- Note: Once vehicle is launched the following tasks must be completed
1. Clear alarms
 2. Log vehicle modifications in notebook
 3. Vehicle on mission
 4. Create *LAUNCHED* comment into WGMS
 5. Upload photos to gallery website with album name: YYYY-MM-DD *VehicleName*

Submit

Print

Clear User Input